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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,888	07/23/2003	Franz Enzmann	P66925US1	6760
	7590 09/18/200 OLMAN PLLC	EXAMINER		
400 SEVENTH	STREET N.W.	ROGERS, JAMES WILLIAM		
SUITE 600 WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
	•		1618	
			MAIL DATE	DELIVERY MODE
			09/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Diffice Action Summary Diffice Action Summary		Application No.	Applicant(s)				
James W. Rogers, Ph.D. 1618		10/624,888	ENZMANN, FRANZ				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extractions of time may be available under the provision of 37 CFR 118(a), no event however, may a reity be linely filled. If NO period for reply a specified above, the maximum situation, priorid will apply and will expire SIX (8) MONTHS from the maling date of this communication. Failuble for period will expire SIX (8) MONTHS from the maling date of this communication. Failuble for period will expire SIX (8) MONTHS from the maling date of this communication. Period will expire SIX (8) MONTHS from the maling date of this communication. Period will expire SIX (8) MONTHS from the maling date of this communication, even if timely filed, may reduce any evening path in an adjustment of the communication in a period will expire SIX (8) MONTHS from the maling date of this communication, even if timely filed, may reduce any evening path in adjustment in adjustment of the communication in a communication in a period will applicate the communication in a communication in a period will applicate any evening path in a displant in adjustment in adjustment of the provision of the period will applicate the period will be provided by the provision of the period will applicate the period will be provided by the period will be provided by the period will be provided will be provided by the Examiner. Disposition of Claims 4) ○ Claim(s)	Office Action Summary	Examiner	Art Unit				
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Art Unit: 1618

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/27/2007 has been entered.

Response to Amendment

Applicants amendment to the claims filed 08/27/2007 has been entered, claim 6 has been amended. While the word heterogeneous does not appear in applicants specification since Q10 is disclosed as insoluble in water and the combination is in the form of a colloidal dispersion it is inherent that a mixture of just water and Q10 will be a heterogeneous dispersion.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. Applicants arguments with respect to Masterson are persuasive because clearly Masterson's compositions were homogenous solutions, Q10 was solubilized in water by a solubilizing agent.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Nyce (US 5,660,835, cited by applicants).

Nyce teaches the use of DHEA in treating adenosine depletion, the specification details that ubiquinones including Q₁₀ can be administered concurrently with DHEA to counteract Q₁₀ depletion in the lungs either separately or simultaneously. See col 5 lin 46-col 7 lin 39. The active compound could be combined with pyrogen free water and formulated into an aerosol, thus meeting the limitation of a spray and aqueous colloidal dispersion. Regarding the limitation that the spray is heterogeneous, from applicant's own specification the last paragraph on page 2 states that ubiquinones are lipophilic substances that are virtually insoluble in water, thus it is inherent that any combination of just water and Q₁₀ without the aid of a solubilizer will form a heterogeneous system. Regarding the limitations within claims 7 and 8 that the spray is either an oral or nasal spray, it is inherent that since the aerosolized compositions of Nyce were administered to the lungs the compositions passed through the oral or nasal cavity. Regarding the limitation in claim 8 the amount of ubiquinone Q_{10} is administered in a total amount per day of 1 to 1200 mg/kg body weight per day, thus within this broad range applicants claimed range for the amount of Q10 is inherently met. For instance for a subject with a weight of 60 kg if administered a dose of 10 mg/kg would receive 600 mg of Q10 per day.

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Claims 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Keller et al. (WO 97/42938, cited by applicants).

Keller teaches delivery of a biologically active material (including ubiquinone Q10) is a liposomal formulation for administration in the mouth. See abstract, page 7 lin 19-page 8 lin 15, example 6 and claims 1-2,6. The compositions are administered by an aerosol or pump spray, thus meeting the limitation of a spray and aqueous colloidal dispersion. Regarding the limitation that the spray is heterogeneous, from applicant's own specification the last paragraph on page 2 states that ubiquinones are lipophilic substances that are virtually insoluble in water, thus it is inherent that any combination of just water and Q10 without the aid of a solubilizer will form a heterogeneous system.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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Claims 6-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nyce (US 5,660,835, cited by applicants) or alternatively Keller et al. (WO 97/42938, cited by applicants) in view of Nagley et al (US 5,981,601, cited previously by examiner) in view of Beal et al. (Molec. Aspects Med. Vol 18, supplement, pp s169-s179, cited previously by examiner) in view of ISAO (JP 52-130922, cited previously by examiner).

Nyce and Keller are disclosed above, Nyce and Keller do not disclose treatment of the claimed diseases recited within claims 9-13 with Ubiquinone Q_{10} .

Nagely discloses treatment of hereditary optic neuropathy, Parkinson's disease and Alzheimers with therapeutic compositions that included redox compounds such as Ubiquinone Q10. See Abstract lin 1-2, col 3 lin 50-65, col 8 lin 14-16, lin 59-col 9 lin 6. Regarding claim 8 the effective amount of redox compound falls within the range cited by the applicants. See claim 8.

Beal is used to primarily show that the use of coenzyme- Q_{10} as a treatment for Huntington's disease was well known at the time of the invention. See abstract.

Isao is used to primarily show that the use of coenzyme-Q₁₀ as a treatment for headaches (meets the limitation of migraine) was well known at the time of the invention. See DERWENT basic abstract.

Thus it follows that applicants claimed invention was *prima fascia* obvious in view of the combination of references above. The claims would have been obvious because it was already well known that the particular techniques of treating hereditary optic neuropathy, Parkinson's disease, Alzheimers, Huntington's disease and headaches through administration of compositions containing ubiquinone Q₁₀ was already

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recognized in the prior art and it would have been ordinary to one of skill in the art to treat the above diseases through administration of ubiquinone Q_{10} as disclosed within Nyce or Keller.

Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

Claim 9 is provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 6-8 of copending Application No. 10/424,987. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented. Specifically both claim a method of treating migraines using an aqueous spray of ubiquinone Q_{10} . As detailed above it is inherent that a combination of water and ubiquinone Q_{10} will form a heterogeneous system because Q_{10} is substantially insoluble in water.

Conclusion

No claims are allowed. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James W. Rogers, Ph.D.

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whose telephone number is (571) 272-7838. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Hartley can be reached on (571) 272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL G. HARTLEY
SUPERVISORY PATENT EXAMINER